



July 28, 2005

**DESIGN MEMORANDUM No. 05-27**  
**TECHNICAL ADVISORY**

**TO:** All Design, Operations, District Personnel, and Consultants

**FROM:** /s/ Anthony L. Uremovich  
Anthony L. Uremovich  
Design Policy Engineer  
Contracts and Construction Division

**SUBJECT:** Inputting Data for Cost Estimate

**COMPLEMENTS:** *Indiana Design Manual* Section 20-2.01

**EFFECTIVE:** November 16, 2005, Letting

In order to better estimate construction costs in the future and to analyze work done in the past, more information must be entered into CES for an in-house-designed project, or into the Consultant Project Input Form, for a consultant-designed project. The Consultant Project Input Form is Excel file 0527-inf.xls, which is attached hereto. The additional information to be required is as follows:

1. Latitude and Longitude. This information should be taken from the SPMS project schedule. If it is not shown there, the designer or estimator should determine the location of the midpoint of the project in degrees, minutes, and seconds. However, the units symbols should be omitted. For example, 89° 59' 34'' would be entered as 895934. For an in-house design, this information is entered on the second page of the General tab. For a consultant design, this information is entered on the right-hand side of the Consultant Project Input Form.

For a contract that includes work on more than one route, e.g., guardrail repair, traffic signal bulb replacement, mowing, herbicide treatment, etc., the latitude and longitude of the point closest to the geographic center of all work should be entered.

2. Project Length, Pavement Width and Depth, and Lane Kilometers (Miles). For an in-house design, this information should be entered on the first page of the General tab at the bottom left of the page in the block titled Metrics. For a consultant design, the values, excluding units, are entered on the left-hand side of the Consultant Project Input Form.
  - a. The project length unit is kilometer (mile).
  - b. The pavement width is the total for the new pavement work, including paved shoulders, being done. The unit is meter (feet). The pavement depth is the average for the new pavement work, including paved shoulders, being done. The unit is millimeter (inch).
  - c. Lane kilometers (miles) is the project length times the number of travel lanes of pavement work, excluding shoulders. The unit is kilometer (mile).

gc/alu  
Attachment

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